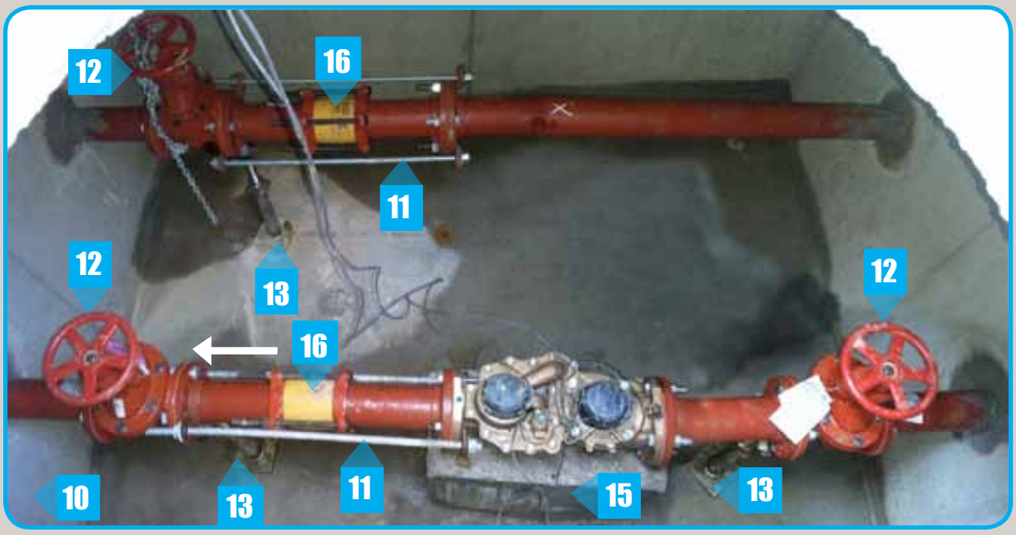
HELPFUL HINTS
TO PASS THE METER INSPECTION

DENVER WATER

LARGE-SIZE METERS: (3-inch and Larger)



***Reference Denver Water Engineering Standard Details: 9, 53, 57**

1. Tapping valve installed on water main.
2. Service line is perpendicular to the curb-line.
3. Stop box and meter vault are in landscaped area, and match finished grade.
   a. Permanent obstructions are 5 feet clear of the meter vault:
      • Utilities, street lights, foundations, fence lines, retaining walls, backflow prevention devices.
   b. Plantings, shrubs and branches must remain 2 feet clear of the meter pit/vault lid.
4. Service line has no bends or connections until 5 feet downstream of the meter vault.
5. Manhole cover is offset over the access ladder.
   a. Manhole cover meets Denver Water Engineering Standards:
      • Single automated meter reading recess (turbine meters).
      • Dual automated meter reading recesses (compound meters).
6. Stop box is 2 to 5 feet from outside wall of meter vault.
7. Service line depth is between 54 and 72 inches.
8. Stop box is plumb and centered over the curb valve.
9. Manhole concrete riser collar(s) plus manhole ring do not exceed 18 inches.
10. Meter vault is the appropriate size:
    a. 8 feet x 9 feet (3 inch, 4 inch, and 6 inch services).
    b. 8 feet x 13.5 feet (8 inch and larger services).
11. Restraints are installed across bolted sleeve type couplings.
12. Gate valves have wheel operators installed.
13. Gate valves are supported by steel pipe supports (Denver Water Engineering Standard Detail 24).
14. Strainer (not pictured) is installed upstream of the meter (turbine meters only).
15. Concrete support block and shims support the meter flanges.
16. Bolted Sleeve Type Coupling.
17. No bypass pipe on irrigation meters.

www.denverwater.org/DoingBusinesswithUs/EngineeringOverview/EngineeringStandards/StandardDrawings